

Optics/Acceptance Update

Min Huang

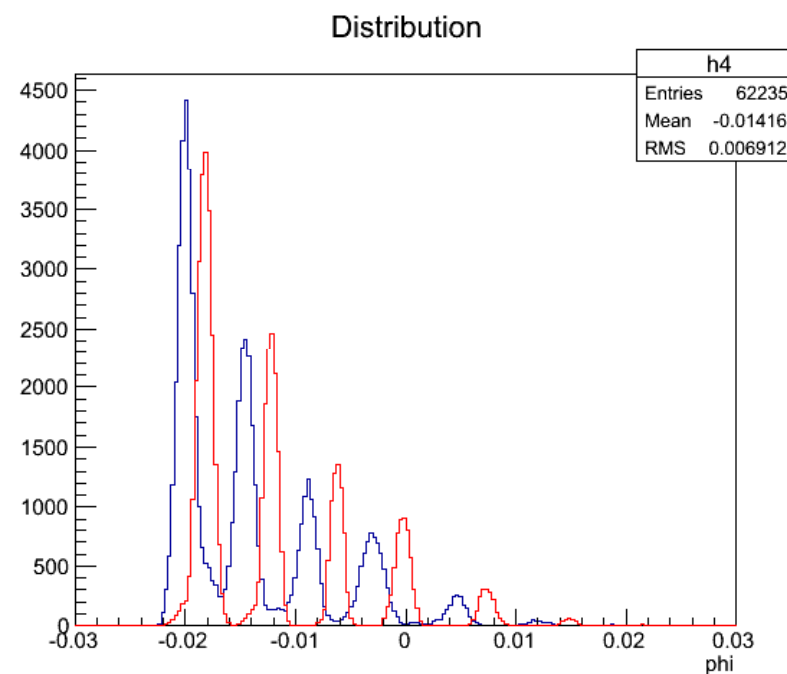
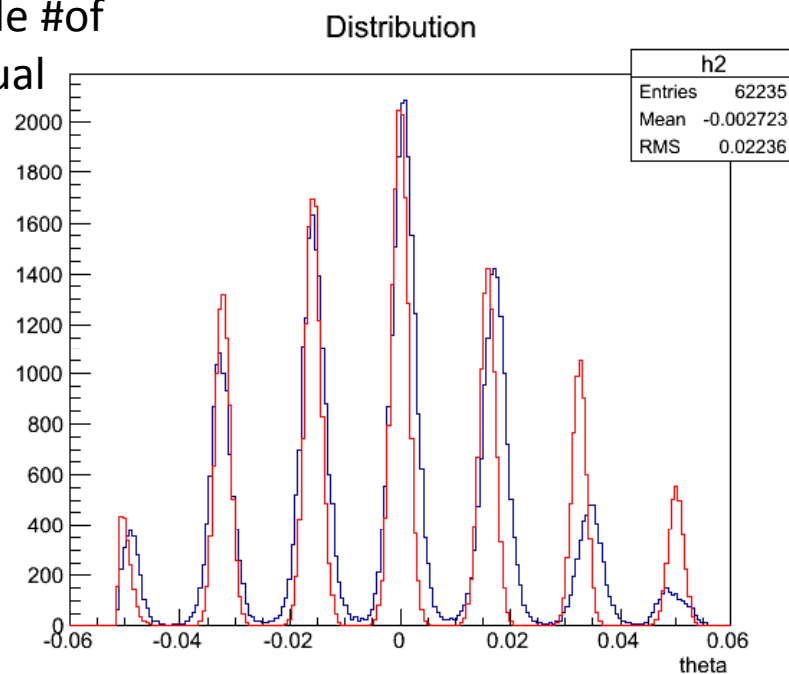
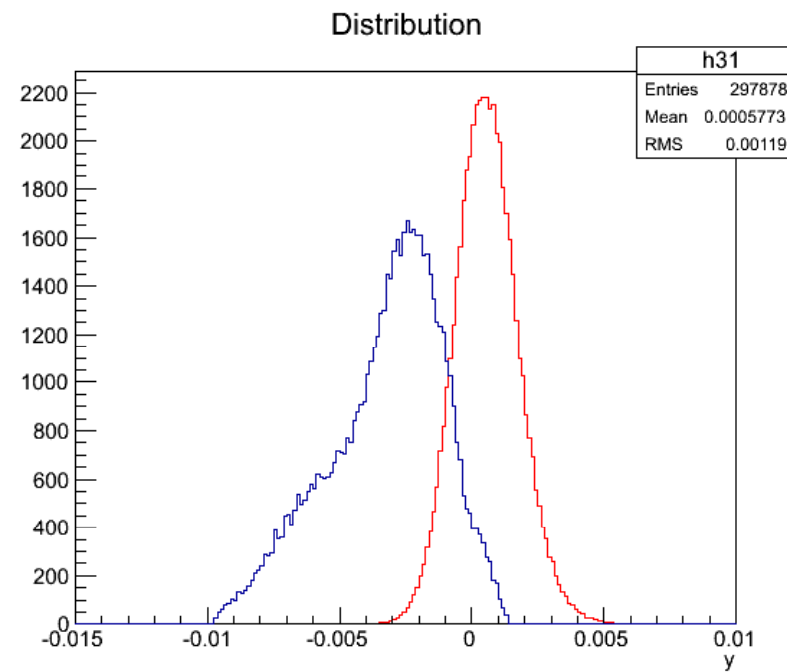
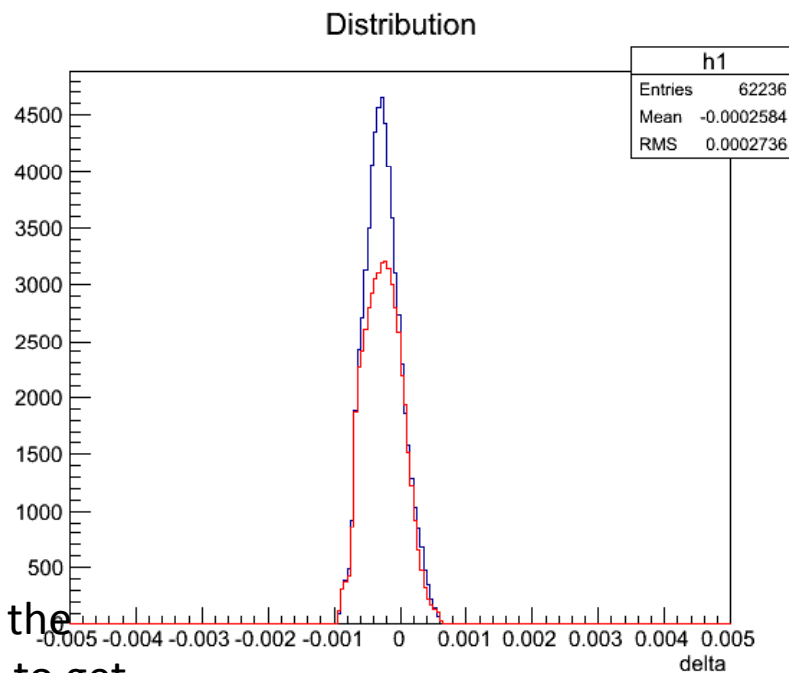
11/20/2013

Comparison of Target Quantities

- March 4th, 2012
 - Straight through, $E_{\text{beam}}=2.254\text{GeV}$
 - Beam position (-2.6mm, 0.1mm)
- Snake transport functions forward + backward
 - Weighted by elastic cross section (g2psim, K. Steinfield)
- Optimized data (matrix by Chao)
 - Vertex and dp cuts to select C12 elastic events

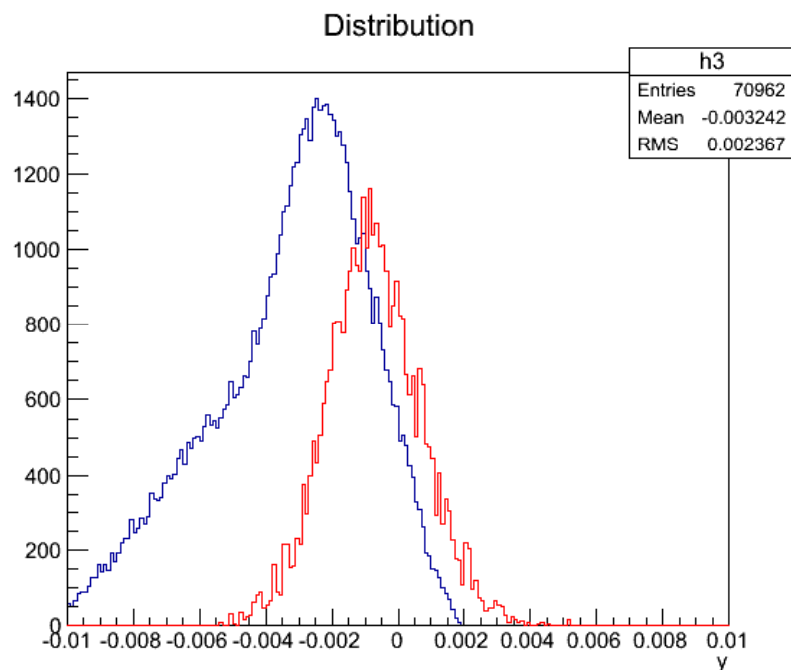
Snake Data

Normalize the
simulation to get
central hole # of
events equal

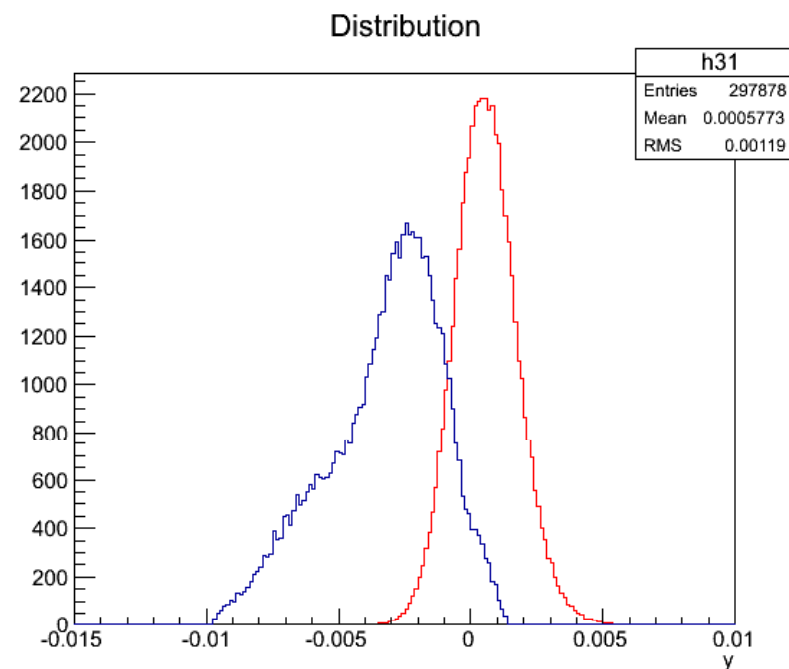


Target y

Last meeting, before optimization



No y_{tg} calibration data on 3/4
Used 3/14 y matrix, seems no effect on the data



Beam_x: -1.7mm 3/4

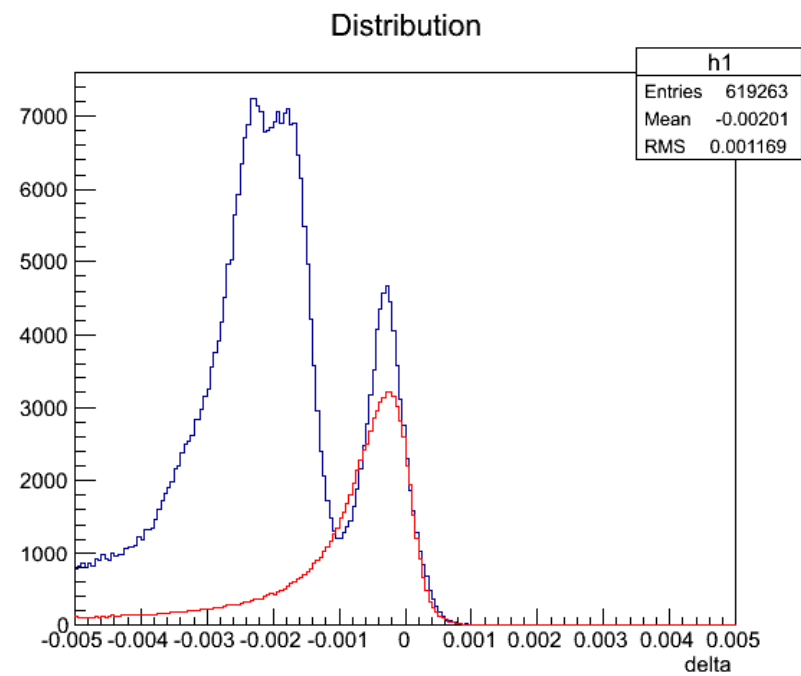
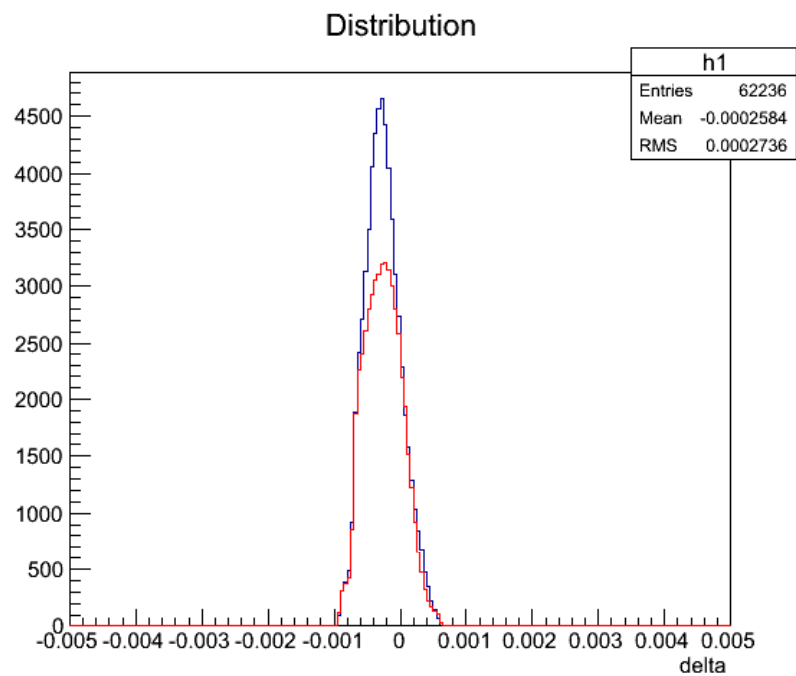
Beam_x: -3.6mm, -7.0 mm 3/14

Do a y_{tg} optimization combining all of them?

Snake
Data

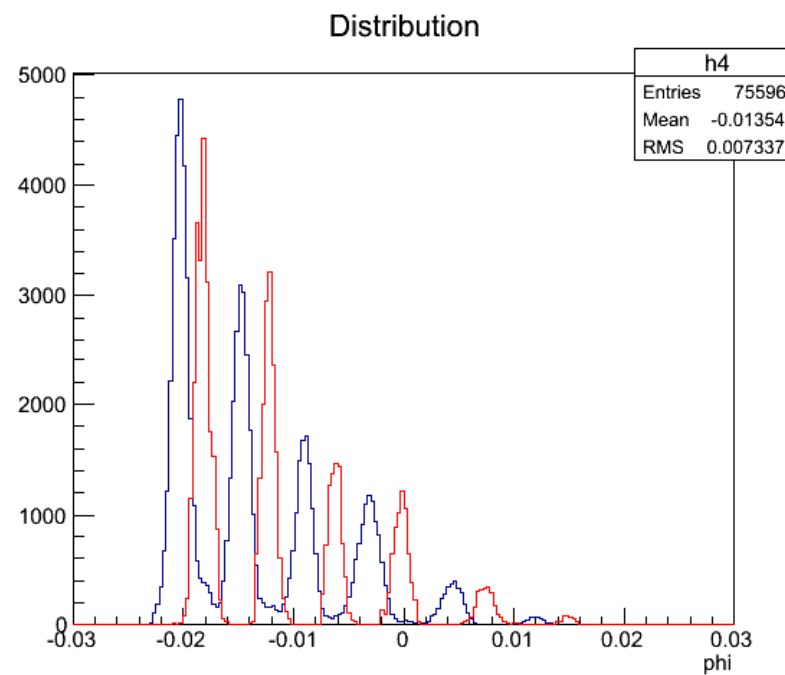
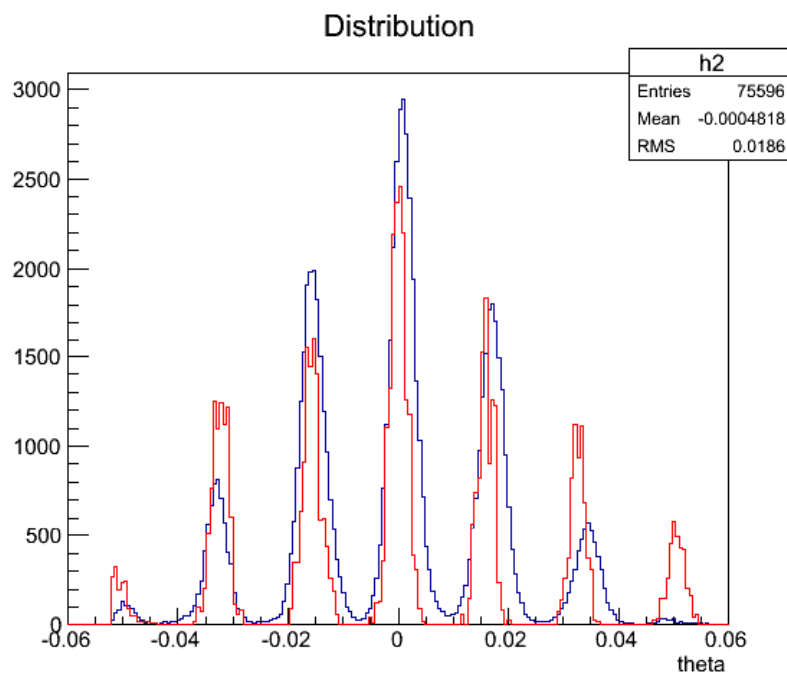
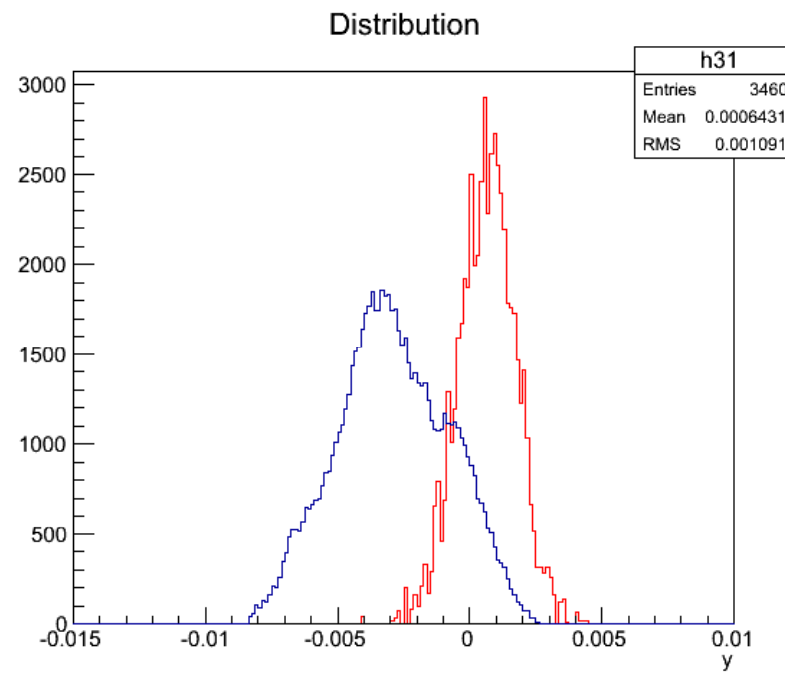
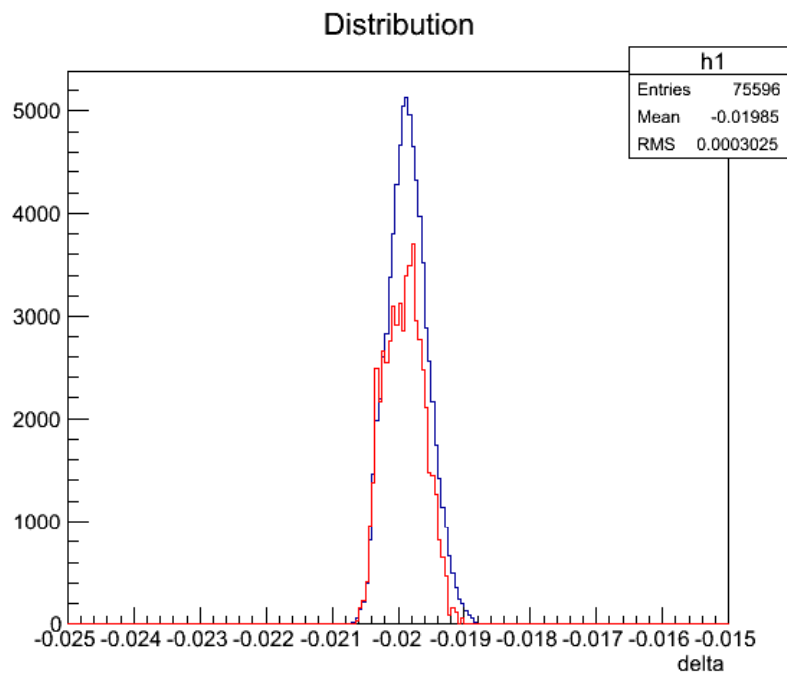
Delta (Dp)

Release the dp cut



Snake
Data

dp=-2%



Next

- Finish other dp scan runs
- Other suggestions from this meeting